



gridsurv

gridsURV

AUTONOMOUS SURVEILLANCE ROBOT

ABOUT GRIDBOTS

We are a Technology company from India and work in the field of Robotics - Artificial Intelligence and Machine Vision. Founded in August 2007 by young and passionate innovator Mr. Pulkit Gaur [TED Fellow and MIT Young Innovator of the year]. We today are a team of more than 50 people- Head quartered in Ahmedabad and having offices in Pune and Delhi.

We design and develop ultra high performance systems which are used in the industry for defect detection - dimension measurement - sorting applications - grading application and many other ways. With our machine vision and robotic solutions we are helping our clients achieve digital factory goals in a time bound manner.

We would be glad to hear about your industry 4.0 adaptation strategy and would love to get in touch with you to explore the synergies in working together !

NO.1

AMR Supplier from India

50+

Projects Completed

100+

Robots Delivered

200+

Components Per AMR



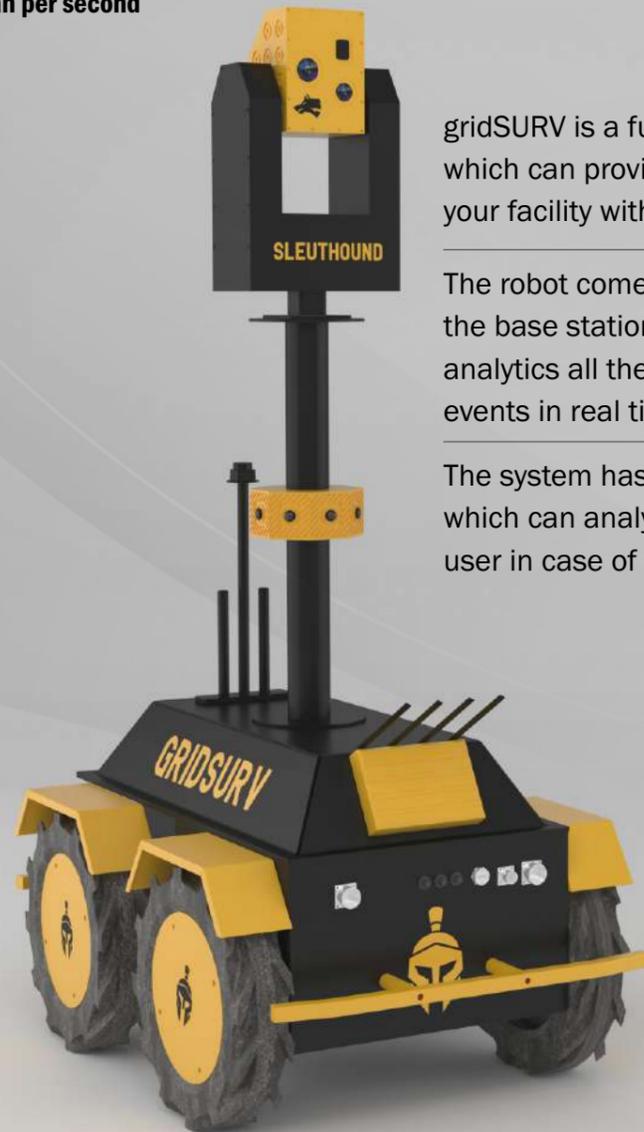
GRIDSURV

AUTONOMOUS SURVEILLANCE ROBOT

INTELLIGENCE IN MOTION

Wireless Range	Payload	Max Speed	Runtime
500_M	100_{kg}	1.5_{m/sec}	6.0_h

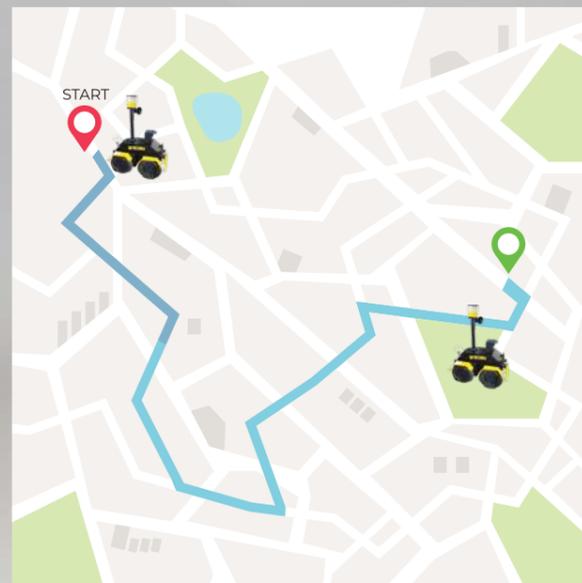
-  **Automatic Charging**
-  **3D Path Navigation**
-  **Fully Autonomous Navigation**
-  **IP 54 Weather Proof**
-  **360 Degree Panoramic View**
-  **Full Range Safety Protections**
-  **10,000 faces scan per second**



gridSURV is a fully autonomous surveillance, mobile robot which can provide round the clock surveillance for securing your facility without any manual intervention.

The robot comes with 360 panorama view streaming to the base station and running deep learning enabled video analytics all the time to detect Unwanted people and events in real time.

The system has state of the art facial recognition system which can analyze 10,000 faces per second and alert the user in case of trespassing.



Complete Autonomy
Robot moves automatically on the user defined path by following the path and performing multiple activities on the way points like clicking pictures or actuating valves or recording videos

Inbuilt Deep AI
Robot is capable of identifying more than 200 objects in the video feed.

36X AHD PTZ - User Camera
A complete PTZ camera with AHD capability can be controlled by user.

Automatic Charging
Robot goes for automatic charging to base station in case of battery low.

3D Vision
Robot uses stereo camera based 3D mapping In dynamic mode to avoid obstacles.

Auto Tracking Mode
Robot can lock on and track the suspects in Case of trespassing.

High pitch - 2 Way
Intercom Robot allows the user to talk to the visitor remotely using its 2 Way intercom feature.

ROBOT DIMENSION

Dimension	1150 x 750 x 1450 mm [LxBxH]
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TECHNICAL SPECIFICATION

Cruising range at 30 °C	500 Meter
Turning radius	1720 mm
Speed during traveling autonomously	3.5 KMPH max
Steering speed	7 degree/sec max
Min illumination for visual navigation	10 - 20 Lux
Ground clearance	110 mm
Climbing angle	10 °
Weight	120 Kg
IP level	65
Operating temperature range	15-55 °C
Storage temperature range	25 °C
Sound level	11 db

BODY AND FRAME

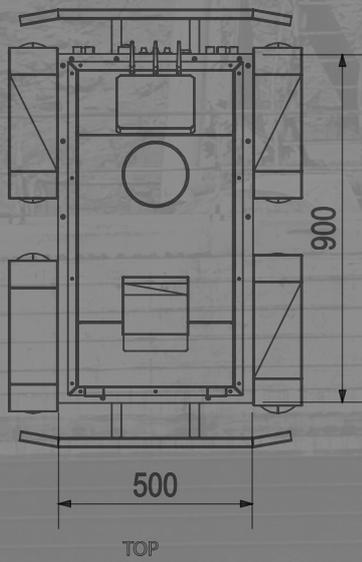
Body	Mild steel
Frame	Mild steel

ROBOT POWER AND CHARGING SYSTEM

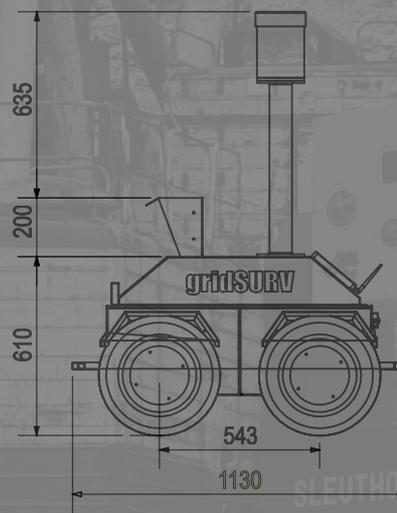
Drive system	Ackerman steering with rear powered wheels
Motor drive power	1000 w
Brake system	Electro-Brake system
Battery type	Life battery
Battery voltage and capacity	24 V, 100 AH
Battery charger (smart charger)	14 V, 30 A multi stage smart charger
Charging Time	3 hours for gull charge

INTERFACE

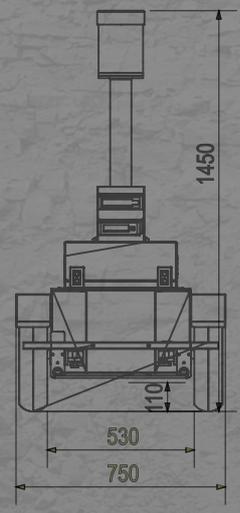
Wireless communication	Wi-Fi + Bluetooth + RS-232
Audio	PCM ENCODED
Visual color	Yellow and Black colors
Remote control	PC = Mobile App + Joystick control
Name	AHD PTZ Surveillance Camera
Optical zoom	36 x
Sensitivity	0.1 Lux
Camera for object detection	Stereo camera
Person detection range	Upto 30 meter



TOP



SIDE



FRONT

FEATURES

- Inspection, Surveillance & Reconnaissance
- 360 Degree Panorama view
- 2D/3D Map Generation
- Remote Mode, Follow Me mode, Fleet & Autonomous Mode
- Upto 500 Meter Range
- State of art facial recognition inbuilt
- E - Maps for easy interfacing
- Automatic Charging - Return to Charger



GRIDBOTS TECHNOLOGIES PVT. LTD.

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